

ENERGY STAR® Application for Certification

81

ENERGY STAR ® Score¹

Lovejoy Wharf

Registry Name: Lovejoy Wharf

Property Type: Office

Gross Floor Area (ft2): 236,688

Built: 2015

For Year Ending: 01/31/2017²

Date Application Becomes Ineligible: 05/31/2017

- 1. The ENERGY STAR Score is based on total source energy. A score of 75 is the minimum to be eligible for the ENERGY STAR.
- 2. Applications must be submitted to EPA within 120 days of the Year Ending Date. The award is not final until approval is received from EPA.



Please use the <u>Licensed Professional's Guide to the ENERGY STAR ® for Commercial Buildings</u> for reference in completing this checklist (http://www.energystar.gov/lpguide).

Property & Contact Information

Property Address

Lovejoy Wharf 160 N. Washington St. Boston, Massachusetts 02144

Property ID: 4975663 Boston Energy Reporting ID: 0303060001

Property Owner

Union Investment Real Estate GmbH Valentinskamp 70 / EMPORIO Hamburg, Hamburg 20355 +49 40 34919 - 0

Primary Contact

Josh Schubert 33 North LaSalle Street Suite 500 Chicago, IL 60602 (312) 242-1792 jschubert@gobyinc.com

1. Review of Whole Property Characteristics

Basic Property Information		
1) Property Name for Registry: Lovejoy Wharf Is this the official name to be displayed in the Registry of ENERGY STAR Certified Buildings and Plants?	☑ Yes	□ No
If "No", please specify: 2) Property Type: Office Is this an accurate description of the primary use of this property?	☑ Yes	□No

3) Location: 160 N. Washington St. Boston, Massachusetts 02144 Is this correct and complete?	☑ Yes	□No
4) Gross Floor Area: 236,688 ft² Does this represent the entire property? (i.e., no part of the building/property was excluded/subtracted from the total) If "no" please specify what space has been excluded.	☑ Yes	□No
5) Average Occupancy (%): [5].[4] Is this occupancy percentage accurate for the entire 12 month period being assessed?	∑ Yes	□No
6) Number of Buildings: 1 Does this number accurately represent all structures?	☑ Yes	□No
Notes:		
Indoor Environmental Standards		
Indoor Environmental Standards 1) Ventilation for Acceptable Indoor Air Quality Does this property meet the minimum ventilation rates according to ANSI/ASHRAE Standard 62.1, Ventilation for Acceptable Indoor Air Quality?		□No
Ventilation for Acceptable Indoor Air Quality Does this property meet the minimum ventilation rates according to ANSI/ASHRAE		□ No
 Ventilation for Acceptable Indoor Air Quality Does this property meet the minimum ventilation rates according to ANSI/ASHRAE Standard 62.1, Ventilation for Acceptable Indoor Air Quality? Acceptable Thermal Environmental Conditions Does this property meet acceptable thermal environmental conditions according to 		

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2. Review of Property Use Details

Retail Store: Retail Store Use		
This Use Detail is used to calculate the 1-100 ENERGY STAR Score.		
★ 1) Gross Floor Area : 5,280		
Is this the total size, as measured between the outside surface of the exterior walls of the building(s)? This includes all areas inside the building(s) such as: occupied tenant areas, common areas, meeting areas, break rooms, restrooms, elevator shafts, mechanical equipment areas, and storage rooms. Gross Floor Area should not include interstitial plenum space between floors, which may house pipes and ventilation. Gross Floor Area is not the same as rentable, but rather includes all area inside the building(s). Leasable space would be a sub-set of Gross Floor Area. In the case where there is an atrium, you should count the Gross Floor Area at the base level only. Do not increase the size to accommodate open atrium space at higher levels. The Gross Floor Area should not include any exterior spaces such as balconies or exterior loading docks and driveways.	 Yes	□No
☆ 2) Weekly Operating Hours:		
Is this the total number of hours per week that the property is open to the public?		□No
☆ 3) Number of Workers on Main Shift:		
Is this the total number of workers present during the primary shift? This is not a total count of workers, but rather a count of workers who are present at the same time. For example, if there are two daily eight hour shifts of 100 workers each, the Number of Workers on Main Shift value is 100. Number of Workers on Main Shift may include employees of the property, sub-contractors who are onsite regularly, and volunteers who perform regular onsite tasks. Number of Workers should not include visitors to the buildings such as clients, customers, or patients.	∑ Yes	□No
★ 4) Number of Computers: (b) (4)		
Is this the total number of computers, laptops, and data servers at the property? This number should not include tablet computers, such as iPads, or any other types of office equipment.	 Yes	□No
★ 5) Number of Cash Registers: (b) (4)		
Is this the total number cash registers? Cash registers are defined as physical machines that are used primarily for conducting transactions and indicating to customers the amounts of individual sales; they record and total receipts, may automatically calculate the change due, and often include a money drawer from which to make change. Handheld point of sale devices should not be included.	∑ Yes	□No
☆ 6) Number of Open or Closed Refrigeration/Freezer Units: (b) (4)		
Is this the count of open or closed cases that are used for the sale or storage of perishable goods? This includes display-type refrigerated open or closed cases and cabinets as well as display-type freezer units typically found on a sales floor. Each case or cabinet section, typically 4 to 12 feet in length, should be considered 1 unit. Include those cases located inside and immediately adjacent to the building. These units may be portable or permanent, and may have doors, plastic strips, or other flexible cover. This count should not include vending machines.	∏ Yes	□No
☆ 7) Number of Walk-in Refrigeration/Freezer Units: (b) (4)		
Is this the total count of walk-in units at the property? Walk-in Refrigeration/Freezers are typically very large units located in storage areas or commercial kitchens that would		☐ No

not be accessible to all building occupants. This count should only include large storage units that a person actually walks into in order to store or retrieve perishable goods.		
★8) Single Store : 100% Yes		
Is this property a single store?		☐ No
★ 9) Exterior Entrance to the Public: 100% Yes		
Is this the correct answer to whether the property has an exterior entrance through which customers enter from the outside? If patrons must enter through an interior entrance, such as from within a mall or an atrium in a mixed use establishment, this is not considered an exterior entrance.	∑ Yes	□No
★ 10) Percent That Can Be Heated: (b) (4)		
Is this the total percentage of the property that can be heated by mechanical equipment?		□No
★ 11) Percent That Can Be Cooled: (b) (4)		
Is this the total percentage of the property that can be cooled by mechanical equipment? This includes all types of cooling from central air to individual window units.		□No
Notes:		
Office: (b) (4)		
This Use Detail is used to calculate the 1-100 ENERGY STAR Score.		
★ 1) Gross Floor Area: 596		
Is this the total size, as measured between the outside surface of the exterior walls of the building(s)? This includes all areas inside the building(s) such as: occupied tenant areas, common areas, meeting areas, break rooms, restrooms, elevator shafts, mechanical equipment areas, and storage rooms. Gross Floor Area should not include interstitial plenum space between floors, which may house pipes and ventilation. Gross Floor Area is not the same as rentable, but rather includes all area inside the building(s). Leasable space would be a sub-set of Gross Floor Area. In the case where there is an atrium, you should count the Gross Floor Area at the base level only. Do not increase the size to accommodate open atrium space at higher levels. The Gross Floor Area should not include any exterior spaces such as balconies or exterior loading docks and driveways.	√ Yes	□No
2) Weekly Operating Hours: [5] (4)		
Is this the total number of hours per week that the property is occupied by the majority of the employees? It does not include hours when the HVAC system is starting up or shutting down, or when property is occupied only by maintenance, security, cleaning staff, or other support personnel. For properties with a schedule that varies during the year, use the schedule most often followed.	 Yes	□No

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★ 3) Number of Workers on Main Shift: (b) (4)		
Is this the total number of workers present during the primary shift? This is not a total count of workers, but rather a count of workers who are present at the same time. For example, if there are two daily eight hour shifts of 100 workers each, the Number of Workers on Main Shift value is 100. Number of Workers on Main Shift may include employees of the property, sub-contractors who are onsite regularly, and volunteers who perform regular onsite tasks. Number of Workers should not include visitors to the buildings such as clients, customers, or patients.	☑ Yes	□No
★ 4) Number of Computers:		
Is this the total number of computers, laptops, and data servers at the property? This number should not include tablet computers, such as iPads, or any other types of office equipment.	∏ Yes	□No
☆ 5) Percent That Can Be Heated: ^{□ (0)}		
Is this the total percentage of the property that can be heated by mechanical equipment?		☐ No
★ 6) Percent That Can Be Cooled: [976]		
Is this the total percentage of the property that can be cooled by mechanical equipment? This includes all types of cooling from central air to individual window units.		□No
Office: Building Use		
This Use Detail is used to calculate the 1-100 ENERGY STAR Score.		
★ 1) Gross Floor Area: 230,812		
Is this the total size, as measured between the outside surface of the exterior walls of the building(s)? This includes all areas inside the building(s) such as: occupied tenant areas, common areas, meeting areas, break rooms, restrooms, elevator shafts, mechanical equipment areas, and storage rooms. Gross Floor Area should not include interstitial plenum space between floors, which may house pipes and ventilation. Gross Floor Area is not the same as rentable, but rather includes all area inside the building(s). Leasable space would be a sub-set of Gross Floor Area. In the case where there is an atrium, you should count the Gross Floor Area at the base level only. Do not increase the size to accommodate open atrium space at higher levels. The Gross Floor Area should not include any exterior spaces such as balconies or exterior loading docks and driveways.	∏ Yes	□No
Is this the total number of hours per week that the property is occupied by the majority of the employees? It does not include hours when the HVAC system is starting up or shutting down, or when property is occupied only by maintenance, security, cleaning	 Yes	□No

staff, or other support personnel. For properties with a schedule that varies during the year, use the schedule most often followed.		
☆ 3) Number of Workers on Main Shift: [976]		
Is this the total number of workers present during the primary shift? This is not a total count of workers, but rather a count of workers who are present at the same time. For example, if there are two daily eight hour shifts of 100 workers each, the Number of Workers on Main Shift value is 100. Number of Workers on Main Shift may include employees of the property, sub-contractors who are onsite regularly, and volunteers who perform regular onsite tasks. Number of Workers should not include visitors to the buildings such as clients, customers, or patients.	 Yes	□No
★ 4) Number of Computers: [0] 49		
Is this the total number of computers, laptops, and data servers at the property? This number should not include tablet computers, such as iPads, or any other types of office equipment.	☑ Yes	□No
☆ 5) Percent That Can Be Heated: (5)(4)		
Is this the total percentage of the property that can be heated by mechanical equipment?		□No
★ 6) Percent That Can Be Cooled: [9](4)		
Is this the total percentage of the property that can be cooled by mechanical equipment? This includes all types of cooling from central air to individual window units.		□No
Notes:		

3. Review of Energy Consumption

Site Energy Use Summary		National Median Comparison	
Electric - Grid (kBtu)	(h) (1)	National Median Site EUI (kBtu/ft²)	101.5
Natural Gas (kBtu)	(D)	National Median Source EUI (kBtu/ft²)	260.4
Total Energy (kBtu)	15,855,669.1	% Diff from National Median Source ÉUI	-34%
Energy Intensity			
Site (kBtu/ft²)	67	Emissions (based on site energy use)	
Source (kBtu/ft²)	171.9	Greenhouse Gas Emissions (Metric Tons CO2e)	1,213.8
		Power Generation Plant or Distribution NSTAR Co [Eversource Energy]	Utility:

Summary of All Associated Meters

The following meters are associated with the property, meaning that they are added together to get the total energy use for the property. Please see additional tables in this checklist for the exact meter consumption values.

	additional tables in this of			
Meter Name	Fuel Type	Start Date	End Date	Associated With
(h) (4)	Electric	01/15/2016	In Use	Lovejoy Wharf
(D)	Electric	01/15/2016	In Use	Lovejoy Wharf
	Electric	12/30/2015	In Use	Lovejoy Wharf
	Electric	01/15/2016	In Use	Lovejoy Wharf
	Electric	08/15/2015	11/17/2016	Lovejoy Wharf
	Natural Gas	01/15/2016	In Use	Lovejoy Wharf
	Electric	04/01/2016	In Use	Lovejoy Wharf
	Electric	01/15/2016	04/01/2016	Lovejoy Wharf
reporting period Additional Fuels	of this application?	he total energy use of this		☑ Yes ☐ No
	enerator fuel oil have bee			√ Yes
		reported in this list (if pre	sent)? All on-site systems	- -

Electric Meter:	(kWh (thousand	Watt-hours))	
Associated With: Lovejoy Start Date	Wharf End Date	Usage	Green Power?
01/15/2016	02/18/2016	16,248	No

Start Date	End Date	Usage	Green Power?
02/18/2016	03/17/2016	(h) (1)	No
03/17/2016	03/31/2016	(D) (4)	No
03/31/2016	04/18/2016		No
04/18/2016	05/17/2016		No
05/17/2016	06/19/2016		No
06/19/2016	07/18/2016		No
07/18/2016	08/16/2016		No
08/16/2016	09/19/2016		No
09/19/2016	10/18/2016		No
10/18/2016	11/17/2016		No
11/17/2016	12/18/2016		No
12/18/2016	01/18/2017		No
01/18/2017	02/16/2017		No
	Total Consumption Watt-hours)):	n (kWh (thousand	(b) (4)
	Total Consumption Btu)):	n (kBtu (thousand	
Total Energy Consumption	for this Meter		☑ Yes ☐ No

Notes:

The meter consumption from 3/17/2016 to 3/31/2016 and 3/31/2016 to 04/18/2016 are shorter than normal durations which is why the consumption is smaller than normal.

Do the fuel consumption totals shown above include consumption of all energy tracked through this meter that affect energy calculations for the reporting period of this application

(i.e., do the entries match the utility bills received by the property)?

Electric Meter: (b) (4)	(kWh (thousand Watt-	hours))	
Associated With: Lovejoy	Wharf		
Start Date	End Date	Usage	Green Power?
01/20/2016	02/18/2016	(b) (1)	No
02/18/2016	03/20/2016	(D) (4)	No
03/20/2016	03/31/2016		No
03/31/2016	04/19/2016		No
04/19/2016	05/18/2016		No
05/18/2016	06/19/2016		No
06/19/2016	07/19/2016		No

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Start Date	End Date	Usage	Green Power?
07/19/2016	08/17/2016	(h) (4)	No
08/17/2016	09/19/2016	(D)	No
09/19/2016	10/19/2016		No
10/19/2016	11/17/2016		No
11/17/2016	12/19/2016		No
12/19/2016	01/19/2017		No
01/19/2017	02/16/2017		No
	Total Consumption Watt-hours)):	n (kWh (thousand	(b) (4)
	Total Consumption Btu)):	n (kBtu (thousand	
otal Energy Consump	tion for this Meter		
Do the fuel consumption	totals shown above include consump ffect energy calculations for the report		- -

The meter consumption from 3/20/2016 to 3/31/2016 and 3/31/2016 to 04/19/2016 are shorter than normal durations which is why the consumption is smaller than normal.

Electric Meter: (b) (4) (kWh (thousand Watt-hours))				
Associated With: Lovejoy W	harf			
Start Date	End Date	Usage	Green Power?	
01/14/2016	02/14/2016	(b) (1)	No	
02/14/2016	03/14/2016	(D)(4)	No	
03/14/2016	04/14/2016		No	
04/14/2016	05/14/2016		No	
05/14/2016	06/14/2016		No	
06/14/2016	07/14/2016		No	
07/14/2016	08/14/2016		No	
08/14/2016	09/14/2016		No	
09/14/2016	09/25/2016		No	
09/25/2016	11/14/2016		No	
11/14/2016	12/14/2016		No	
12/14/2016	01/14/2017		No	
01/14/2017	02/14/2017		No	

	Total Consumption (kWh (thousand Watt-hours)): Total Consumption (kBtu (thousand Btu)):	(b) ((4)
through this meter that affect	for this Meter s shown above include consumption of all energy tracked energy calculations for the reporting period of this application utility bills received by the property)?	☑ Yes	□No
Notes:			

ociated With: Lovejoy	Wharf		
Start Date	End Date	Usage	Green Power?
01/20/2016	02/18/2016	(h) (1)	No
02/18/2016	03/31/2016	(D)(4)	No
03/31/2016	04/19/2016		No
04/19/2016	05/18/2016		No
05/18/2016	06/19/2016		No
06/19/2016	07/19/2016		No
07/19/2016	08/17/2016		No
08/17/2016	09/19/2016		No
09/19/2016	10/19/2016		No
10/19/2016	11/17/2016		No
11/17/2016	12/19/2016		No
12/19/2016	01/19/2017		No
01/19/2017	02/16/2017		No
	Total Consumptio Watt-hours)):	Total Consumption (kWh (thousand Watt-hours)):	
	Total Consumptio Btu)):	on (kBtu (thousand	
l Energy Consumptic	on for this Meter		∏ Yes

Notes:			
Electric Meter: (b) (4)	kWh (thousand Watt-hou	urs))	
Associated With: Lovejoy	Wharf		
Start Date	End Date	Usage	Green Power?
01/20/2016	02/18/2016	(h) (4)	No
02/18/2016	03/20/2016	(\mathbf{D})	No
03/20/2016	03/31/2016		No
03/31/2016	04/19/2016		No
04/19/2016	05/18/2016		No
05/18/2016	06/19/2016		No
06/19/2016	07/19/2016		No
07/19/2016	08/17/2016		No
08/17/2016	09/19/2016		No
09/19/2016	10/19/2016		No
10/19/2016	11/17/2016		No
	Total Consumption Watt-hours)):	(kWh (thousand	(b) (4)
	Total Consumption Btu)):	(kBtu (thousand	
Total Energy Consumption	on for this Meter		☑ Yes ☐ No
through this meter that affe	tals shown above include consumptic ct energy calculations for the reporting the utility bills received by the property	ng period of this application	
Notes:			

Natural Gas Meter: (b) (4)	therms)	
Associated With: Lovejoy Wharf		
Start Date	End Date	Usage
01/15/2016	02/02/2016	(b) (1)
02/02/2016	03/31/2016	(b) (4)
03/31/2016	05/04/2016	
05/04/2016	06/06/2016	
06/06/2016	07/06/2016	
07/06/2016	08/08/2016	
08/08/2016	09/01/2016	
09/01/2016	10/06/2016	
10/06/2016	11/04/2016	
11/04/2016	12/06/2016	
12/06/2016	01/03/2017	
01/03/2017	02/03/2017	
	Total Consumption (therms):	
	Total Consumption (kBtu (thousand Btu)):	
otal Energy Consumption for thi	is Meter	∏ Yes
	above include consumption of all energy tracked alculations for the reporting period of this application is received by the property)?	
Notes:		
The meter consumption from 02/02/2 is larger than normal.	2016 to 3/31/2016 is a longer than normal du	ration which is why the consun

Electric Meter: (b) (4) (kWh (thousand Watt-hours))			s))
Associated With: Lovejoy Start Date	Wharf End Date	Usage	Green Power?
04/01/2016	04/19/2016	(h) (4)	No
04/19/2016	05/18/2016		No
05/18/2016	06/19/2016		No
06/19/2016	07/19/2016		No
07/19/2016	08/17/2016		No

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End Date	Usage	Green Power?
09/19/2016	(b) (4)	No
10/19/2016	(10)	No
11/17/2016		No
12/19/2016		No
01/19/2017		No
02/19/2017		No
Total Consumptio Watt-hours)):	n (kWh (thousand	(b) (4)
Total Consumptio Btu)):	n (kBtu (thousand	
n for this Meter		☑ Yes ☐ No
energy calculations for the repor	ting period of this application	
t	10/19/2016 11/17/2016 12/19/2016 01/19/2017 02/19/2017 Total Consumptio Watt-hours)): Total Consumptio Btu)): In for this Meter Total Shown above include consumption tenergy calculations for the reportations.	10/19/2016 11/17/2016 12/19/2016 01/19/2017 02/19/2017 Total Consumption (kWh (thousand Watt-hours)): Total Consumption (kBtu (thousand Btu)):

Electric Meter: (b) (4) (kWh (thousand Watt-hours))			
Associated With: Lovejoy	Wharf		
Start Date	End Date	Usage	Green Power?
01/20/2016	02/18/2016	(b) (4)	No
02/18/2016	03/20/2016	(D)	No
03/20/2016	04/01/2016		No
	Total Consumption (kWh (thousand Watt-hours)):		(b) (4)
	Total Consumption	on (kBtu (thousand	
otal Energy Consumption	on for this Meter		✓ Yes ✓ No
through this meter that affe	als shown above include consum of energy calculations for the repo ne utility bills received by the prop	orting period of this application	

Notes:

The meter consumption from 3/20/2016 to 4/1/2016 is a shorter than normal duration which is why the consumption is smaller than normal.

4. Signature & Stamp of Verifying Licensed Professional

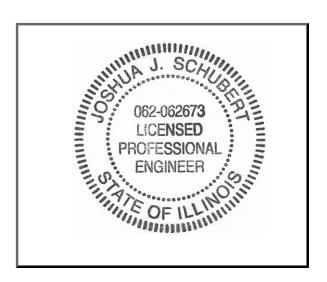
Robert Rugala (Name) visited this site on 1/3/2017 (Date). Based on the conditions observed at the time of the visit to this property, I verify that the information contained within this application is accurate and in accordance with the Licensed Professional Guide.

Signature: Date: 5/5/2017

Licensed Professional

License: 062062673 in IL License: 50274 in MN License: 76431 in FL License: 115248 in TX License: 43907-6 in WI License: M 37645 in CA License: PE084775 in PA License: 097019 in NY

Josh Schubert 33 North LaSalle Street Suite 500 Chicago, IL 60602 (312) 242-1792 jschubert@gobyinc.com



Professional Engineer Stamp

NOTE: When applying for the ENERGY STAR, the signature of the Verifying Professional must match the stamp.

5. Signatory Agreement

I hereby nominate the above described property for award of the ENERGY STAR. I have provided a copy of the Licensed Professionals Guide to the ENERGY STAR for Commercial Buildings to our Licensed Professional (LP) for reference. As documented by the above checklist, this property meets the conditions necessary to qualify as ENERGY STAR. I am submitting this application within four months of the Year Ending Date (January 31, 2017) used to generate the application. I will assist EPA, if requested, in verifying any data included in this application.

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Furthermore, I agree to associate the ENERGY STAR logo only with this property and to adhere to the ENERGY STAR Identity Guidelines.

As manasing Azent

Signature (must be a direct employee of the building owner/manager): Em Soupik Date: 5/26/17

Signatory Name: Erin Orpik

Property Owner: Union Investment Real Estate GmbH

The government estimates the average time needed to fill out this form is 6 hours (includes the time for entering energy data, Licensed Professional facility inspection, and notarizing the SEP) and welcomes suggestions for reducing this level of effort. Send comments (referencing OMB control number) to the Director, Collection Strategies Division, U.S., EPA (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460